

# National Clean Diesel Campaign

## Projects, Programs and Funding

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# Presentation Overview

- Overview of NCDC
- Program Successes
- Costs and Benefits
- NCDC Funding
- Energy & Transportation Bills



# Overview Of National Clean Diesel Campaign

- Goal: Reduce emissions from the legacy fleet of over 11 million diesel engines by 2014
- Focus on five sectors:
  - School Buses
  - Ports
  - Construction
  - Agriculture
  - Freight
- Program activities:
  - Technology verification
  - Providing technical and policy analysis
  - Coalition-building and outreach
  - Establishing projects through grant competitions



# Sector-Based Programs

- **Clean School Bus USA**
  - Aims to modernize 100% of the nation's school bus fleet by 2010
- **Clean Ports USA**
  - Encourages port authorities and terminal operators to reduce emissions and provide economic incentives to operate more efficiently
- **Clean Construction USA**
  - Encourages reducing emissions from major public and private construction projects in non-attainment areas
- **SmartWay Transport Partnership**
  - Challenges freight companies to improve the environmental performance of their fleets
- **Clean Air Agriculture (newest sector)**
  - Promotes biofuels/renewables & retrofit in farming communities in non-attainment areas in partnership with USDA



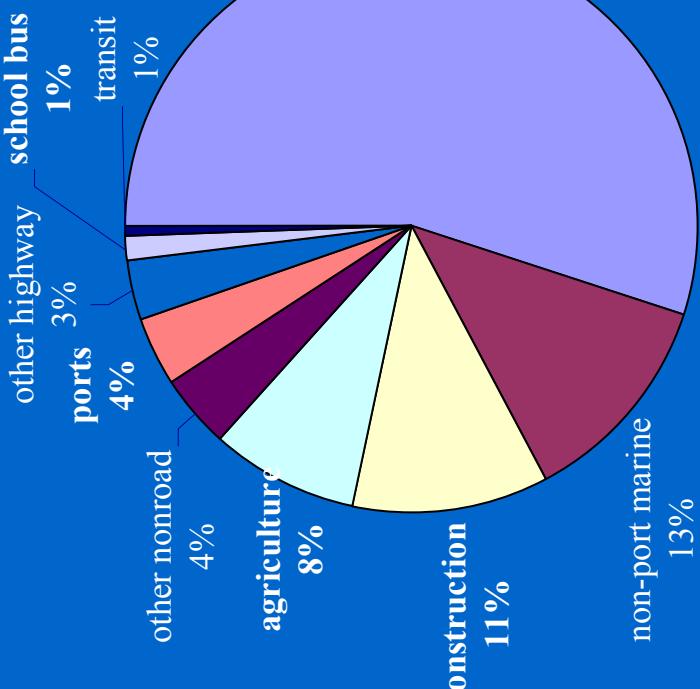
# Focus on Key Sectors

- We chose sectors based on:
  - Levels of emissions
  - Public health impacts
    - Non-attainment zones
    - Proximity to sensitive populations
  - Cost-effectiveness of reduction strategies
  - Timely opportunities
    - e.g. Expansion of ports and major road construction
  - Support from stakeholders and the public

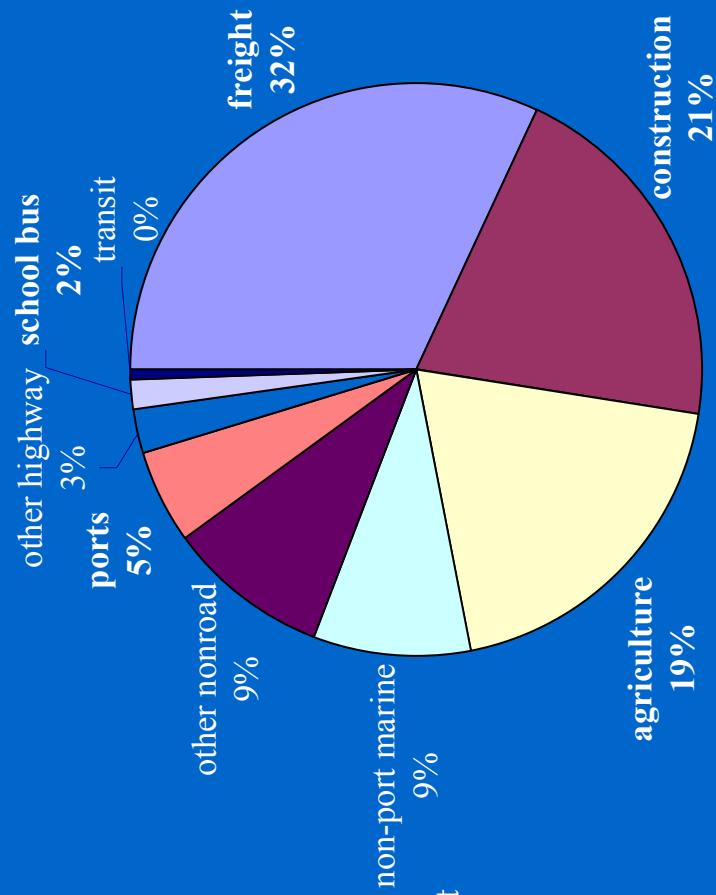


# Mobile Source Diesel Emissions Inventory by Sector (2004)

**NO<sub>X</sub>**  
(6.3 million tons)



**PM 2.5**  
(305,000 tons)

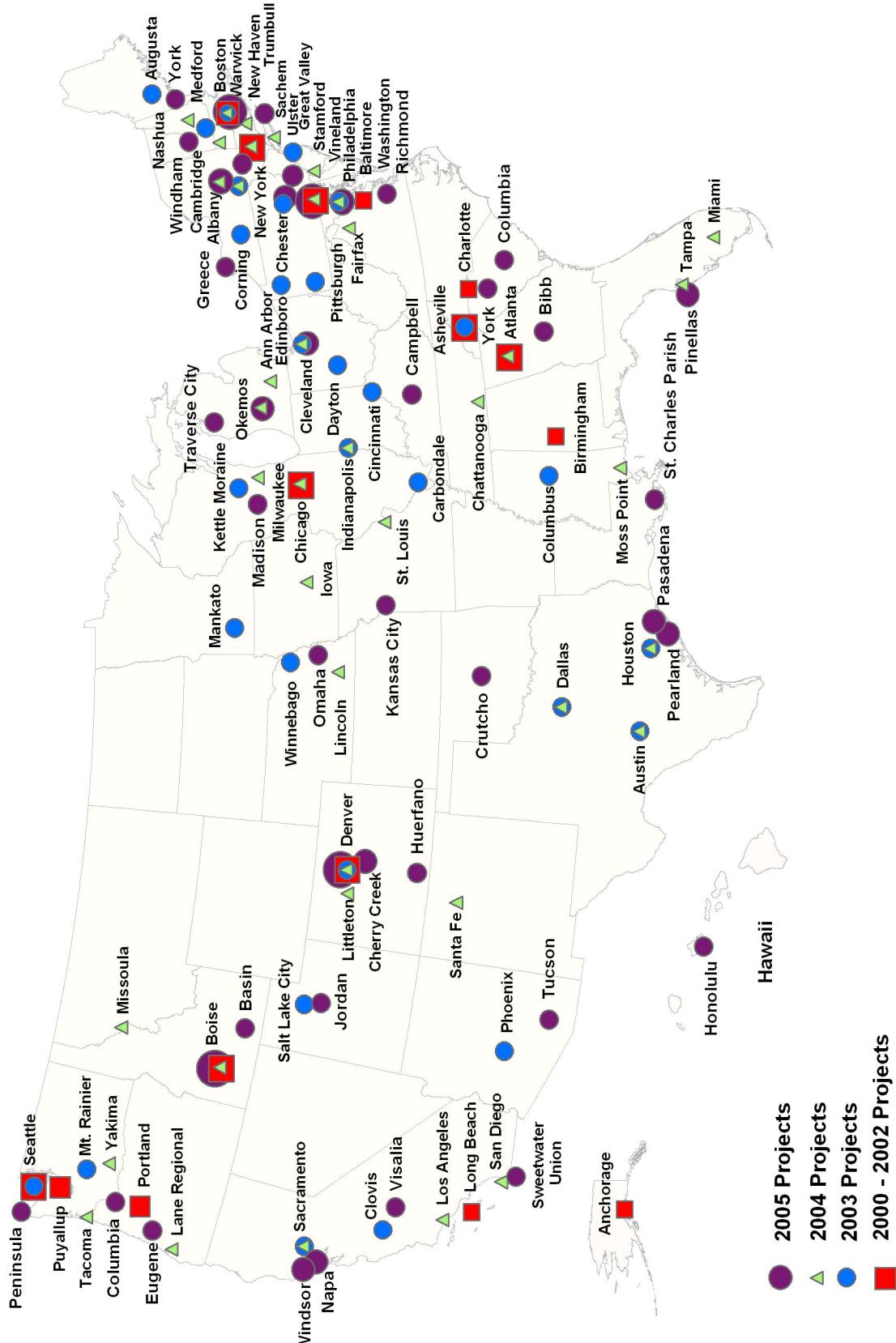


# Program Successes

- Over 600 Partners
- 20 States (and DC) using ULSD early
- Over 200,000 engines are being retrofitted
- 17 emissions control technologies verified
- Partners have contributed significant resources
  - Over 2 external dollars for every 1 federal dollar invested
  - States have established programs with funding > \$400M
- Specifically,
  - As a result of Clean School Bus USA:
    - Over 2 million children in 150 school districts are riding approx. 20,000 cleaner buses
  - As a result of SmartWay Transport:
    - 53 idle reduction projects are in place along major interstate corridors (I-95, I-40, I-5, I-35, I-10, I-85)
    - 322 Total Partners

# EPA Funded Retrofit Projects

(as of 2/22/2006)



# Costs and Benefits

- Clean diesel voluntary programs currently underway will:
  - Reduce over 20,000 tons of PM
  - Provide nearly \$5 billion in health benefits
  - Benefits will exceed the costs
- Technology Costs/Benefits
  - Aftertreatment (DOC, DPF) \$500 - \$8000
    - 20-90% PM reduction
  - Crankcase filtration ~ \$500
    - 5-10% PM reduction



# Federal Funding

## *National Clean Diesel Campaign*

- **2005 National Clean Diesel Campaign Grants**
  - \$7.5 M for Clean School Bus. 37 grants awarded.
    - 172 applications (up from 103 in 2003) from 36 states
    - Requested \$50 million
  - \$1.1 for ports & construction. 10 grants awarded.
    - 25 applications from 16 states
    - Requested \$4 million
- **2005 SmartWay Transportation**
  - \$5 M for idle reduction demonstration projects. 5 grants awarded.
- **FY06 budget**
  - \$5 Million for National Clean Diesel Campaign
  - \$7 Million for Clean School Bus grants
  - Funding will be distributed through EPA's Regional Clean Diesel Collaborative network
- **FY07 budget**
  - President requested \$50 million to support clean diesel activity



# **Future Federal Funding: Energy and Transportation Bills Overview**

- **Authorized Funding – Energy Policy Act**
  - Diesel Emission Reduction Act (DERA)
    - \$1 Billion over 5 years
    - Expect to fund 150-200 projects
    - 70% of the funds to be distributed by EPA in National Grants and Loans
    - 20% of the funds to establish State grant/loan programs
    - An optional 10% of the funds can be used to increase state allocations for states that match federal funds
- **Fleet Modernization**
  - \$100 M over 3 years (focus on ports)
- **Clean School Bus**
  - \$110 M over 2 years with more funds thru FY2010
  - Expect to fund 40 - 75 projects
- **Idle Reduction**
  - \$140M over 3 years for idle reduction



# **Future Federal Funding: Energy and Transportation Bills Overview**

- **Transportation Bill -**
  - Congestion Mitigation and Air Quality (CMAQ)
    - Priority for diesel retrofits in construction
    - In partnership with DOT, EPA must provide guidance to states on effectiveness of technologies and strategies
    - \$1.4 billion per year for 6 years



**For More Information**

Visit EPA's National Clean Diesel Campaign  
Website

[www.epa.gov/cleandiesel](http://www.epa.gov/cleandiesel)

